## ABSTRACT OF THE DISCLOSURE

A method of charging and discharging a lithium secondary battery in which a negative electrode comprises an active material including silicon provided on a current collector which is a metal which does not form an alloy with lithium. The method is characterized in that the lithium secondary battery is charged and discharged within a range of state of charge (SOC) at which no peak corresponding to a compound of lithium and silicon is observed in an X-ray diffraction pattern during charging using  $\text{CuK}_\alpha\text{-radiation}$  as the X-ray source.

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